



MIDWESTERN INSTRUMENTS

41st AND SHERIDAN ROAD, P. O. BOX 1526, TULSA, OKLAHOMA 74101

PHONE 918-627-1111
TWX 918-627-6030
TELEX 049-589

Mr. T. Nelson
Box 1546
Poughkeepsie, New York 12603

January 3, 1965

Subject: Series/M4000 Digital Tape Transport Inquiry

Dear Mr. Nelson:

Thank you very much for your interest and inquiry concerning
Midwestern's M4000 digital tape transport system.

Enclosed for your review is an introductory brochure describing
the Series/M4000 in outline form and indicating the versatility and
wide range of applications in tape speed, data format, recording
density, and systems interface. In addition to basic tape transport
features, the M4000 also incorporates optional time sharing and ex-
panded system features in master/slave configurations. These stan-
dard optional packages can be selected as basic building blocks to
custom tailor a transport system to precisely match your interface
requirements.

In addition to the brochure, we are also enclosing a follow up
questionnaire and return envelope for your convenience in requesting
more information or preparation of a specific proposal for immediate
requirements. If you wish, our local representative will be more
than pleased to arrange a technical conference for a detailed pre-
sentation on the M4000 features, performance, and versatility. For
this purpose, please contact:

OSSMANN INSTRUMENTS
101 Pickard Drive
Syracuse, New York 13211
Phone 315-454-2461

The standard M4000 is fully compatible with IBM tape formats in
both seven and nine channel configurations. All units are delivered
prewired for future field conversion to IBM nine channel, 2400 series,
tape format. Thank you again for your interest in Midwestern. We
look forward, with great pleasure, to serving you and your transport
requirements.

Very sincerely,

MIDWESTERN INSTRUMENTS, INC.

Ralph P. Bohn
Sales Manager
Digital Tape Products Division

DATAMATION
Nov 65

DE 2017

MIDWESTERN m4000

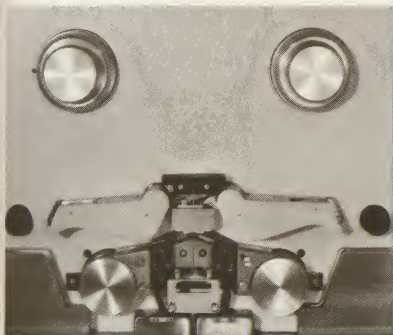
DIGITAL TAPE TRANSPORT



M4000

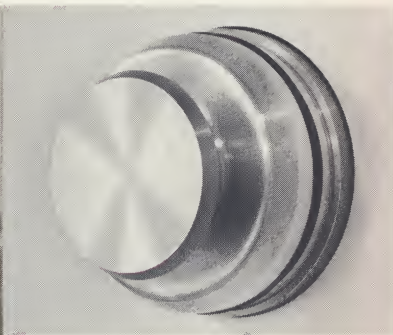
THE SERIES/M4000 DIGITAL TAPE TRANSPORT SYSTEM

combines unparalleled operating dependability with third generation computer system performance. Compatible with both seven and nine track recording formats, the M4000 covers the complete range from low to high performance in tape speed, recording density, and data transfer rates for both present and future data processing systems. With direct or shared operation, single or multiple tape speeds, and full flexibility of system interface with either conventional solid state or integrated circuitry, the M4000 provides a total solution to digital tape storage requirements – from the most advanced data processors to specialized off-line acquisition and data handling systems.



POSITIVE PRESSURE TAPE DRIVE

The Series/M4000 tape system utilizes the time proven, *positive pressure pneumatic drive principle* pioneered and developed by Midwestern. The positive pressure drive has proven superiority over pinch rollers, vacuum capstans, or reversing motion devices for tape motion control, and offers the highest tape transport and information reliability, lowest dynamic skew figures, and the most stable start/stop times and distances. Positive, yet gentle tape handling is the hallmark of the M4000.



QUICK ACTION HUB

The Series/M4000 tape transport system offers the fastest tape threading and automatic tape loading system available on high performance transports. The M4000 is equipped with push-pull quick release and positive lock hub assemblies for almost instantaneous reel loading. A straight line, obstruction-free tape path eliminates complicated tape threading. Fully automatic loading positions the tape at load point in the ready condition. Less than 20 seconds is required to put an M4000 on-line.

THE M4000 OFFERS THESE ADVANTAGES

TOTAL COMPATIBILITY The M4000 offers compatibility not only with all major computer tape formats currently in use, but for those intended in the foreseeable future.

7 AND 9 CHANNEL All 1/2" tape formats—IBM and ASCII-7 and 9 track compatibility for all speeds and packing densities.

RESTRICTION FREE PROGRAMMING No servo or program restrictions at either the highest or lowest data transfer rates, at any tape speed.

OPERATOR SAFETY All functions are interlocked to prevent operator injury, and either tape or transport damage.

COMPLETE TAPE SPEED RANGE The series/M4000 tape transport is available for operation at speeds providing as low as 5KC data rates and as high as 120KC data rates.

MAXIMUM RELIABILITY The elimination of high impact contact parts, plus the use of 100% derated components throughout, yields the highest MTBF figures available to today's transport user.

EASE OF MAINTENANCE Simplified adjustment procedures offer maximum on-line usage with a minimum amount of scheduled preventive maintenance.

SYSTEM FLEXIBILITY Modular electronic design and construction allow the user total flexibility in designing for the transport system interface.

**THE SERIES / M4000 PROVIDES FULL IBM COMPATIBILITY
WITH THE FOLLOWING STANDARD CONFIGURATIONS:**

SPEED RANGE

M4000 - 1	121 to 150 ips
M4000 - 2	91 to 120 ips
M4000 - 3	51 to 90 ips
M4000 - 4	25 to 50 ips

TAPE FORMAT

7 Channel — IBM 729 Series

9 Channel — IBM 2400 Series

TRANSPORT CONTROL

Direct — Single Channel

Gated — Multiple Channel, up to 8 transports

READ/WRITE ELECTRONICS

Master or Slave

7 or 9 Channel

Single-Dual-Triple Density Units

Buffered, Strobed Data Outputs

OPTIONAL FEATURES

Dual Tape Speed

Address Select

Density Set — Manual or Program

Program Read/Write Set

Lateral Parity Check

Longitudinal Parity Check

Record Gap Detect

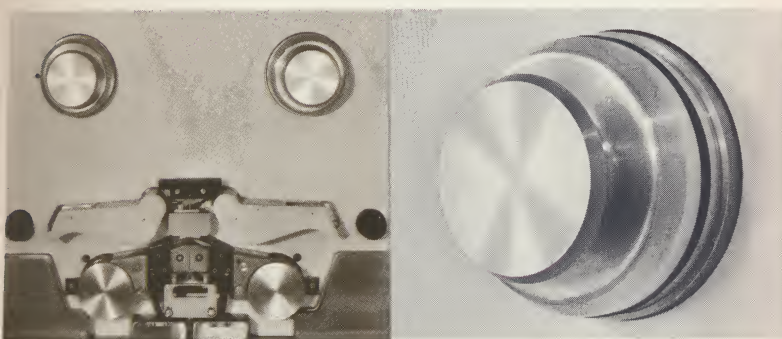
File Mark Detect



**MIDWESTERN
INSTRUMENTS**
SUBSIDIARY OF THE TELEX CORPORATION

41st and Sheridan Road P. O. Box 1526 / Tulsa, Oklahoma / Ph. 918 627-1111 / TWX 918 627-6030 / TELEX 049-589





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Typical of all high performance Midwestern products is the Magnecord Model 1020 tape recorder/reproducer, a professional quality instrument for consumer use.



Midwestern Instruments is a subsidiary of the Telex Corporation, and a major supplier of optical galvanometers, oscillograph recorders, and high performance audio tape recorders under the trade name Magnecord.

Other divisions of the Telex Corporation are engaged in the manufacture of electronic components and instruments, including personal hearing aids, portable and console radio-phonographs, microphones, high fidelity and communications headsets, and recording systems.



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Mr. Bohn:

would appreciate receiving more information on Midwestern's M4000 digital tape transport.

Please send detailed specifications.

Please have your representative call with detailed information.

Please call me from Tulsa at your earliest convenience.

Please put me on your permanent mailing list for information on digital tape transports.

SEND INFORMATION TO:

_____ Title _____

_____ Street or Mail Code _____

_____ State _____ Zip _____

Area Code _____ Number _____ Extension _____

I have an immediate requirement for more information. My transport configuration is described as follows:

CONFIGURATION () On-line with our in-house design computer system.
() On-line with our in-house design data reduction system.
() Off-line data gathering, etc.
() On-line with IBM System, IBM Model _____*
() Other _____

REQUIREMENTS () 1/2" - 7 Track (IBM 729 compatible)
() 1/2" - 9 Track (IBM 2400 compatible)
() Other _____

OPERATING CHARACTERISTICS Tape Speed _____
Data Density _____

TRANSPORT CONTROL AND DATA INTERFACE () Single unit control per data channel.
() Multiple control with shared data channels.
Number of Shared Channels: () One, () Two **
Number of Transports: _____ (Up to Eight, Standard) **

QUOTATION DATA () Please prepare a quotation based on the following.
Number of transports _____ or systems _____
Delivery required _____

*NOTE: Midwestern really doesn't offer this capability, YET, but is interested if you are.

**NOTE: Expanded systems available on special quotation.

No
Postage Stamp
Necessary
If Mailed in the
United States

BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 1446, SEC. 34.9, P.L. & R., TULSA, OKLA.

POSTAGE WILL BE PAID BY

MIDWESTERN INSTRUMENTS

P. O. BOX 1526

TULSA, OKLAHOMA 74101

ATTENTION:

DIGITAL TAPE

PRODUCTS DIVISION